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**SANTITIZED VERSION OF MATERIAL RELEASE REPORTS, NOS. 188-223 AUGUST 1955
THRU JUNE 1956**

(SANTITIZED VERSION OF CRD DOCUMENT #KP-869 COMBINED)

**Compiled by
S. G. Thornton
Environmental Management Division
OAK RIDGE K-25 SITE
for the Health Studies Agreement**

December 14, 1995

**Oak Ridge K-25 Site
Oak Ridge, Tennessee 37831-7314
managed by
LOCKHEED MARTIN ENERGY SYSTEMS, INC.
for the U.S. DEPARTMENT OF ENERGY
under Contract DE-AC05-84OR21400**

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AS Twist
Technical Information Officer
Oak Ridge K-25 Site

3/1/96
Date

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KP-869 Combined

K25RC

NOT TO BE LOANED FROM
PLANT RECORDS

MATERIAL RELEASE REPORT
No. 188 through 223

R. G. GRISHAM

UNION CARBIDE NUCLEAR COMPANY
DIVISION OF UNION CARBIDE CORPORATION

Operating

UNION CARBIDE NUCLEAR COMPANY
OPERATION - LABORATORY

United Atomic Energy Commission

Under U. S. Government Contract

UNION
CARBIDE

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KP 869 CO 1 A

M-14666

KP-869 Combined

Material Release Reports, Nos. 188 --- 223
August 1955 thru June 1956
(Part 1 through Part 36)

PLANT RECORDS DEPT.
CENTRAL FILES

REC
R-51902

FILE

X-REF.

X-REF.

H. G. Grisham

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By authority of:

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(classification guide)

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~~SECRET~~ Sam W. Wohlfart

8/25/94
Date

ADD signature (final reviewer)

~~SECRET~~ DOE-OR QA

~~SECRET~~ George Thoenig

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8/26/94
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INTER-COMPANY CORRESPONDENCE

(INSERT
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COMPANY CARBIDE AND CARBON CHEMICALS COMPANY

LOCATION

Post Office Box P
OAK RIDGE, TENN.

633299

TO Mr. J. A. Parsons
LOCATION K-303-8

DATE August 10, 1955

ANSWERING LETTER DATE

ATTENTION

COPY TO

Mr. D. C. Brater
Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
Mr. R. G. Nicol
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)

SUBJECT K-1401 Material Release,
Report No. 188

KP-869, Part 1

Date of Release	April, May, June, 1955
Location of Release	K-1401
Balance Area Account No.	200
Material	UF ₆
Class or Assay	"C"
Amount of Material Involved	1,135 grams uranium
Equipment	"OO" Converters
Source of Information	R. G. Nicol

Details: Known loss of calculated quantity.

During the last quarter of fiscal year 1955, a total of thirteen K-31 converters and one converter from the K-309-3 test loop were decontaminated at K-1401. These converters were fluorinated at high temperatures in the furnace stand for a period of two or three hours and the recovered UF₆ vented to the atmosphere. Sufficient data were taken to enable a calculation of the recovered UF₆ from each converter to be made. The uranium-235 was obtained by applying the proper assay to the recovery from each unit. The assays for the K-31 converters averaged 2.5% and the assay for the test loop converter was 10.5%. A calculated quantity of 1,135 grams uranium and 61 grams uranium-235 was vented to the atmosphere from these fourteen converters during the quarter. This material will be shown as a measured loss and properly credited to the 200 account.

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H. G. Grisham

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COMPANY CARBIDE AND CARBON CHEMICALS COMPANY

LOCATION

Post Office Box P
OAK RIDGE, TENN.

633308

TO
LOCATION

✓ Mr. J. A. Parsons
K-303-8

DATE August 10, 1955

ANSWERING LETTER DATE

ATTENTION
COPY TO

Mr. R. R. Frazier (2) K25RC
Mr. L. H. Gooch
Mr. J. A. Marshall
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
Mr. B. H. Thompson
File (H. G. Grisham)

SUBJECT K-633 Material Release,
Report No. 189

KP-869, Part 2

Date of Release
Location of Release
Balance Area Account Number
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

April 19, 1955
K-633
530
UF6
Class "A", 0.400%
25 lbs. UF6
Copper tubing
L. H. Gooch

Details: Known loss of estimated quantity

On April 19, 1955, a material release occurred in K-633 as a result of a rupture in the copper tubing pigtail which connects the feed cylinder to the permanent piping. A period of time of approximately five minutes was required to close the valves which isolated the ruptured pigtail. An estimated quantity of 25 pounds UF₆ was lost as a result of this release. This quantity of 7,668 grams uranium and 31 grams uranium-235 will be carried as a measured loss and credited to the 530 account.

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LOCATION

Post Office Box P
OAK RIDGE, TENN.

633318

TO
LOCATION

✓ Mr. J. A. Parsons
K-303-8

DATE August 10, 1955

ANSWERING LETTER DATE

ATTENTION
COPY TO

Mr. R. R. Frazier (2) K25RC
Mr. J. A. Marshall
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
Mr. B. H. Thompson
Mr. A. Varlan
File (H. G. Grisham)

SUBJECT K-1131 Material Release,
Report No. 190

KP-869, Part 3

Date of Release
Location of Release
Balance Area Account Number
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

July, 1955
K-1131
550
UF6
"A"
3,555 grams uranium
K-1131 Vent Stack
Letter KP-860

Details: Known loss of calculated quantity

During the month of July, 1955, Process Control Laboratory took 49 routine vent stack gas samples to determine the extent of material which was vented to the atmosphere during the 21 days of July which the K-1131 feed plant was in operation. Using an average of these sample results and a flow rate of 15 pounds per hour as a basis, a calculated loss of 3,555 grams uranium and 24 grams uranium-235 was vented to the atmosphere during this 21-day period of operation. This quantity of material will be shown as a measured loss and credited to the 550 account.

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LOCATION

1345918
Post Office Box P
OAK RIDGE, TENN.

TO ☒ Mr. J. A. Parsons
LOCATION K-303-8

DATE October 10, 1955

ANSWERING LETTER DATE

ATTENTION

COPY TO Mr. J. W. Arendt
Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)

SUBJECT Vaults 15-A and 16-A
Material Release,
Report No. 192

KP-869, Part 5

Date of Release	September 28, 1955
Location of Release	Vaults 15-A and 16-A
Balance Area Account No.	920
Material	Carbonate Solution and Laboratory Waste
Class or Assay	Class "D"
Amount of Material Involved	340.94 liters
Equipment	Drums No. L-453 and No. R-2668
Source of Information	J. W. Arendt

Details: Known loss of known quantity.

As a result of the corrosive action of the contents of the drums on the walls of same, leaks were discovered in drum No. L-453 in Vault 15-A and drum No. R-2668 in Vault 16-A on September 28, 1955. Drum No. L-453 contained 95.04 liters of carbonate solution and was a total loss with no recovery. A known loss of 202 grams uranium and 44 grams uranium-235 resulted here. Drum No. R-2668 contained 245.9 liters of laboratory waste solution, with a release of 787 grams uranium and 187 grams uranium-235. A recovery of 663 grams uranium and 158 grams uranium-235 was effected, leaving a known loss of 124 grams uranium and 29 grams uranium-235. These two known losses of material will be shown as a measured loss and credited to the 920 account.

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TO ☒ Mr. J. A. Parsons
LOCATION K-303-8

DATE October 26, 1955

ANSWERING LETTER DATE:

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Mr. J. W. Arendt
Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)

SUBJECT Correction to Material Release Report No. 192

KP-869, Part 5 - Errata

This letter is written in order to correct Material Release Report No. 192. The measured loss from drum No. L-453 was incorrectly reported as being 202 grams uranium and 44 grams uranium-235. It should be corrected to show a loss of 2 grams uranium and 0 grams uranium-235.

H. G. Grisham
H. G. Grisham

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TO ✓ Mr. J. A. Parsons
LOCATION K-303-8

DATE October 19, 1955

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Mr. R. R. Frazier (2) K25RC
Mr. J. A. Marshall
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
Mr. B. H. Thompson
File (H. G. Grisham)

SUBJECT: K-1420 Material Release,
Report No. 193

KP-869, Part 6

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

September 12, 1955
K-1420
200
Second Rinse Solution
Class "A"
890 liters
Second Rinse Booth
D. R. Carson

Details: Known loss of calculated quantity.

During the decontamination of converter 000-496 in K-1420, there occurred an unusual "carry-over" of solution from the first rinse booth to the second rinse booth. Since this converter, which had been installed in the K-633 test loop, was particularly "hot" (the analysis of the first rinse solution varied from 0.56 grams uranium per liter to 7.06 grams uranium per liter), it was felt that a measured loss report should be made on this operation. Using the known volume and the analysis of the first rinse booth, a calculated loss to the second rinse booth of 2,756 grams uranium and 12 grams uranium-235 was made. Since no flow or analytical measurements are made on this second rinse solution which flows to the holding pond, the above-mentioned quantity of material will be shown as a measured loss and credited to the 200 account. The 200 account is credited since the material originally passed from the K-633 test loop to K-1420 without being charged to the 200 decontamination account.

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H. G. Grisham

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TO
LOCATION

Mr. J. A. Parsons
K-303-8

DATE October 19, 1955

ANSWERING LETTER DATE

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Mr. J. A. Marshall
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
Mr. B. H. Thompson
Mr. A. Varlan
File (H. G. Grisham)

SUBJECT K-1131 Material Release,
Report No. 194

KP-869, Part 7

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

September, 1955
K-1131
550
UF6
Class "A" - 0.670%
11,130 grams uranium
K-1131 Vent Stack
W. D. McCluen

Details: Known loss of calculated quantity.

During the month of September, 1955, periodic vent stack gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the full month of operation. Using an average of these sample results (171 ppm) and a flow rate of 30 pounds per hour as a basis, a calculated quantity of 11,130 grams uranium and 75 grams uranium-235 was vented to the atmosphere during the month. This quantity of material will be shown as a measured loss and credited to the 550 account.

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H. G. Grisham

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TO ☒ Mr. J. A. Parsons
LOCATION K-303-8

DATE October 26, 1955

ANSWERING LETTER DATE

ATTENTION

COPY TO Mr. D. C. Brater
Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
Mr. R. G. Nicol
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)

SUBJECT K-1401 Material Release,
Report No. 195

KP-869, Part 8

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

September, 1955
K-1401
200
UF₆
"C" - 2.000%
120 grams U
"00" converters
R. G. Nicol

Details: Known loss of estimated quantity.

During the latter part of the first quarter of fiscal year 1956, two "00" converters were decontaminated in K-1401 using fluorine at high temperatures, with the recovered UF₆ being vented to the atmosphere. Normally, this material is cold trapped but, due to an operating error, the material removed from these converters was not cold trapped. The quantity of material thus lost to the atmosphere was estimated, using previous decontamination experience at K-1401 for the past three years. Using the assay of the position in the plant from which these converters were withdrawn, an estimated loss of 120 grams uranium and 2 grams uranium-235 occurred. This material will be shown as a known loss and credited to the 200 account.

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H. G. Grisham

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OAK RIDGE, TENN.

TO Mr. J. A. Parsons
LOCATION K-303-8

DATE October 26, 1955

ANSWERING LETTER DATE

ATTENTION

COPY TO Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
Mr. H. M. Preuss
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)

SUBJECT K-301-1.4 Material
Release, Report No. 196
KP-869, Part 9

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

August 31, 1955
K-301-1.4
200
UF6
"D"
0.5 lb. UF6
Air Jet
CCR Log Book

Details: Known loss of estimated quantity.

On August 31, 1955, during the evacuation and purging of cell K-301-1.4, a mis-valving operation occurred and a small quantity of material was released from an evacuation line which had not been isolated. This release was estimated to be 0.5 lb. UF6. This quantity of material, will be carried as a measured loss and credited to the 200 account.

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H. G. Grisham
H. G. Grisham

Approved: S. S. Stief

S. S. Stief

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TO Mr. J. A. Parsons
LOCATION K-303-8

DATE November 18, 1955

ANSWERING LETTER DATE

ATTENTION

COPY TO Mr. J. Dykstra
Mr. R. R. Frazier (2) K25RC
Mr. J. A. Marshall
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
✓ Mr. B. H. Thompson
File (H. G. Grisham)

SUBJECT K-1410 Material Release,
Report No. 197

KP-869, Part 10

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

October, 1955
K-1410
390
Ammonium Carbonate Solution
Class "B"
101 liters
Two containers of solution
D. R. Carson

Details: Known loss of known quantity.

On October 9, 1955, two containers of ammonium carbonate solution were sent to K-1410 for temporary storage before being transferred to account 920. This solution was sampled and found to contain 696 grams uranium and 13 grams uranium-235. These containers were inventoried October 31, 1955, resampled, and found to contain only 33 grams uranium and 1 gram uranium-235. Due to the corrosive action of the solution, leaks had developed in the containers with a loss of 91 liters of the solution. This known loss of 663 grams uranium and 12 grams uranium-235 will be shown as a measured loss and credited to the 390 account.

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NOV 23 1955
CHEMICAL
OPERATIONS

H. G. Grisham
H. G. Grisham

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211927

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COMPANY CARBIDE AND CARBON CHEMICALS COMPANY

LOCATION

Post Office Box P
OAK RIDGE, TENN.

TO

Mr. J. A. Parsons

DATE

November 18, 1955

LOCATION

K-303-8

ANSWERING LETTER DATE

ATTENTION

COPY TO

Mr. L. L. Anthony
Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)

SUBJECT

K-33 Feed Room Material
Release, Report No. 198

KP-869, Part 11

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

November 1, 1955
K-33 Feed Room
115
UF₆
0.785%
6 lbs. UF₆
P-80
E. L. Clay

Details: Known loss of known quantity.

A cylinder, P-80, of Paducah product material was received October 26, 1955, at a gross weight of 6,406 pounds. While this cylinder was being heated for feeding, a leak, due to a bad valve, was discovered. After the leaky valve had been replaced, the gross weight of the cylinder was 6,400 pounds. This 6 pounds of UF₆ material, 1,840 grams uranium and 14 grams uranium-235, will be carried as a measured loss and credited to the 115 account.

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N-11935

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COMPANY CARBIDE AND CARBON CHEMICALS COMPANY

LOCATION

Post Office Box 1
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TO ✓ Mr. J. A. Parsons
LOCATION K-303-8

DATE November 18, 1955

ANSWERING LETTER DATE

ATTENTION
COPY TO

Mr. R. R. Frazier (2) K25RC
Mr. J. A. Marshall
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
Mr. B. H. Thompson
Mr. A. Varlan
File (H. G. Grisham)

SUBJECT K-1131 Material Release,
Report No. 199

KP-869, Part 12

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

October, 1955
K-1131
550
UF6
Class "A" - 0.670%
10,406 grams uranium
K-1131 Vent Stack
W. D. McCluen

Details: Known loss of calculated quantity.

During the month of October, 1955, periodic vent stack gas samples were taken at K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the full month of operation. Using an average of these samples (154 ppm) and a flow rate of 30 pounds per hour as a basis, a calculated quantity of 10,406 grams uranium and 70 grams uranium-235 was vented to the atmosphere during the month. This quantity of material will be shown as a measured loss and credited to the 550 account.

H. G. Grisham
H. G. Grisham

Approved:

S. S. Stief
S. S. Stief

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INTER-COMPANY CORRESPONDENCE

142142

(INSERT NAME)

COMPANY CARBIDE AND CARBON CHEMICALS COMPANY

LOCATION

Post Office Box P
OAK RIDGE, TENN.

TO ☒ Mr. J. A. Parsons
LOCATION K-303-8

DATE December 15, 1955

ANSWERING LETTER DATE

ATTENTION

COPY TO Mr. R. R. Frazier (2) K25RC
Mr. J. A. Marshall
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
Mr. B. H. Thompson
Mr. A. Varlan
File (H. G. Grisham)

SUBJECT K-1131 Material Release,
Report No. 200

KP-869, Part 13

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

November, 1955
K-1131
550
UF₆
Class "A" - 0.670%
14,211 grams uranium
K-1131 Vent Stack
W. D. McCluen

Details: Known loss of calculated quantity.

During the month of November, 1955, periodic vent stack gas samples were taken at K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during a full month's operation. Using the average of these vent samples and a flow rate of 30 pounds per hour as a basis, a calculated quantity of 14,211 grams uranium and 95 grams uranium-235 was vented to the atmosphere during the month. This quantity of material will be shown as a measured loss and credited to the 550 account.

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H. G. Grisham
H. G. Grisham

HG:mk

Approved:

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S. S. Stief

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INTER-COMPANY CORRESPONDENCE

(INSERT NAME) COMPANY CARBIDE AND CARBON CHEMICALS COMPANY LOCATION Post Office Box P OAK RIDGE, TENN.

TO ✓ Mr. J. A. Parsons
LOCATION K-303-8

DATE December 15, 1955

ANSWERING LETTER DATE

ATTENTION
COPY TO

Mr. J. W. Arendt
Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)

SUBJECT Vaults 15-A and 16-A
Material Release,
Report No. 201

KP-869, Part 14

Date of Release	November 20 and 30, 1955
Location of Release	Vaults 15-A and 16-A
Balance Area Account No.	920
Material	Laboratory Waste and Ammonium Filtrate Solution
Class or Assay	"A", "B", and "C"
Amount of Material Involved	747.85 liters
Equipment	Drums Nos. R-4173, E-4366, R-4503, and R-4026
Source of Information	J. W. Arendt

Details: Known loss of known quantity.

On November 20, 1955, drums Nos. R-4173, E-4366, and R-4503 were discovered to have developed leaks as a result of the corrosive action of the contents of the drum. These drums initially contained 668.85 liters of material (7,925 grams uranium and 148 grams uranium-235). A recovery of 6,370 grams uranium and 94 grams uranium-235 was made. The difference of 1,555 grams uranium and 54 grams uranium-235 is a known loss. Drum No. R-4026 also developed a leak on November 30, 1955, and released the contents of the drum with no recovery. A known loss of 1 gram uranium and 1 gram uranium-235 resulted from this leak. A total known loss of 1,556 grams uranium and 55 grams uranium-235 resulted from these four drums. This will be shown as a measured loss and credited to the 920 account.

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H. G. Grisham
H. G. Grisham

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COMPANY CARBIDE AND CARBON CHEMICALS COMPANY

LOCATION

Post Office Box 1
Oak Ridge, Tenn.

TO / Mr. J. A. Parsons
LOCATION K-303-8

DATE January 17, 1956

ANSWERING LETTER DATE

ATTENTION

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Mr. J. W. Arendt
Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)

SUBJECT Vault 16-A Material Release,
Report No. 202

KP-869, Part 15

Date of Release
Location of Release
Balance Area Account No.
Material

December 14, 1955
Vault 16-A
920
Uranyl Fluoride and Laboratory
Waste Solutions
"A" and "B"
247.22 liters
Drums Nos. R-4181, R-4177, and
R-3643
J. W. Arendt

Class or Assay
Amount of Material Involved
Equipment

Source of Information

Details: Known loss of known quantity.

On December 14, 1955, drums Nos. R-4181, R-4177, and R-3643 were discovered to have developed leaks as a result of the corrosive action of the contents of the drums. These drums initially contained 247.22 liters of uranyl fluoride and laboratory waste solutions (10,528 grams uranium and 85 grams uranium-235). A recovery of 1,410 grams uranium and 22 grams uranium-235 was made. The difference between the initial contents and the recovery (9,118 grams uranium and 63 grams uranium-235) will be shown as a measured loss and credited to the 920 account. This measured loss is broken down into material ranges as follows:

Material Range	Grams U	Grams U ²³⁵
670	7,864	43
9L1	817	10
10L1	437	10
Total	9,118	63

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H. G. Grisham

Approved:

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OAK RIDGE, TENN.

TO ☒ Mr. J. A. Parsons
LOCATION K-303-8

DATE January 17, 1956

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Mr. R. R. Frazier (2) K25RC
Mr. J. A. Marshall
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
Mr. B. H. Thompson
Mr. A. Varlan
File (H. G. Grisham)

SUBJECT K-1131 Material Release,
Report No. 203

KP-869, Part 16

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

December, 1955
K-1131
550
UF6
Class "A" - 0.670%
16,202 grams uranium
K-1131 Vent Stack
W. D. McCluen

Details: Known loss of calculated quantity.

During December, 1955, periodic vent stack gas samples (81) were taken at K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during a full month's operation. Using an average of these vent samples (142 ppm) and a flow rate of 30 pounds per hour as a basis, a calculated quantity of 16,202 grams uranium and 109 grams uranium-235 was vented to the atmosphere during December. This quantity of material will be shown as a measured loss and credited to the 550 account.

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H. G. Grisham

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COMPANY CARBIDE AND CARBON CHEMICALS COMPANY

LOCATION

Post Office Box P
OAK RIDGE, TENN.

TO ✓ Mr. J. A. Parsons
LOCATION K-303-8

DATE January 17, 1956

ANSWERING LETTER DATE

ATTENTION
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Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. G. T. E. Sheldon
Mr. H. G. P. Snyder
File (H. G. Grisham)

SUBJECT K-306-7 PPU Material
Release, Report No. 204

KP-869, Part 17

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

December 4, 1955
K-306-7 PPU
140
UF₆
"G"
100 grams U
Drain line valve
CCR Log

Details: Known loss of estimated quantity.

Due to the rupture of the bellows in drain line valve No. 44 of the K-306-7 PPU, a release of UF₆ occurred on December 4, 1955. This estimated release of 100 grams uranium and 93 grams uranium-235 will be carried as a measured loss and credited to the 140 account.

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H. G. Grisham
H. G. Grisham

Approved: *S. S. Stief*

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COMPANY CARBIDE AND CARBON CHEMICALS COMPANY

LOCATION

Post Office Box P
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TO ☒ Mr. J. A. Parsons
LOCATION K-303-8

DATE January 17, 1956

ANSWERING LETTER DATE

ATTENTION

COPY TO

Mr. R. H. Dyer
Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)

SUBJECT K-413 Material Release,
Report No. 205

KP-869, Part 18

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

December 26, 1955
K-413
150
UF₆
1.500%
7 lbs. UF₆
Cylinder No. 23505
CCR Log

Details: Known loss of known quantity.

On December 26, 1955, cylinder No. 23505 was filling at the K-413 building as part of a special withdrawal when a leak developed in the cylinder valve. The cylinder was immediately removed from the filling location and iced down. After a new valve had been installed, a reweighing of the cylinder indicated that the release amounted to 7 pounds UF₆. This quantity of material, 2,147 grams uranium and 32 grams uranium-235, will be carried as a known loss and credited to the 150 account.

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H. G. Grisham
H. G. Grisham

Approved:

S. S. Stief
S. S. Stief

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COMPANY CARBIDE AND CARBON CHEMICALS COMPANY

LOCATION

Post Office Box P
OAK RIDGE, TENN.TO Mr. J. A. Parsons
LOCATION K-303-8

DATE January 31, 1956

ANSWERING LETTER DATE

ATTENTION

COPY TO

Mr. R. H. Dyer
Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)SUBJECT Correction to Material
Release Report No. 205

KP-869, Part 18 - Errata

This letter is written as a correction to Material Release Report No. 205. Although cylinder No. 23505 did develop a valve leak and showed a weight decrease of 7 pounds after the valve was repaired as reported in the CCR log book, it is felt, according to K-27 supervisory personnel, that the release was not nearly this great because the material in the pigtail connected to the filling cylinder had to be evacuated before the valve could be repaired and this material, as well as the pigtail, was a portion of the weight of the cylinder before the leak developed. Since the scales which were used for weighing this cylinder were not official weight scales, and since K-27 supervisory personnel regard it only as a minor release, Material Release Report No. 205 should be corrected to show a minor release of unknown quantity.

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H. G. Grisham
H. G. Grisham

Approved:

S. S. Stief
S. S. Stief

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COMPANY CARBIDE AND CARBON CHEMICALS COMPANY

LOCATION

Post Office Box P
OAK RIDGE, TENN.

TO
LOCATION

✓ Mr. J. A. Parsons
K-303-8

DATE January 17, 1956

ANSWERING LETTER DATE

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Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
Mr. B. H. Thompson
Mr. A. Varlan
File (H. G. Grisham)

SUBJECT K-1131 Material Release,
Report No. 206

KP-869, Part 19

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

November 8, 1955
K-1131
550
UF₆
"A"
10 lbs. UF₆
Clean-up Reactor
A. Varlan

Details: Known loss of known quantity.

On November 8, 1955, due to a leak in the clean-up reactor at K-1131, a release estimated at 10 pounds UF₆ occurred. This release of 3,067 grams uranium and 21 grams uranium-235 will be shown as a measured loss and credited to the 550 account.

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H. G. Grisham
H. G. Grisham

HGG:mnk

Approved:

S. S. Stief
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COMPANY CARBIDE AND CARBON CHEMICALS COMPANY

LOCATION

Post Office Box P
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TO ✓ Mr. J. A. Parsons
LOCATION K-303-8

DATE February 1, 1956

ANSWERING LETTER DATE

ATTENTION

COPY TO Mr. J. W. Arendt
Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)

SUBJECT Vaults 15-A and 16-A
Material Release,
Report No. 207

KP-869, Part 20

Date of Release
Location of Release
Balance Area Account No.
Material

January 31, 1956
Vaults 15-A and 16-A
920
C-816, Hydrocarbon Oil, and
Laboratory Waste
"A" and "B"
1,408.47 liters
Drums as shown below
J. W. Arendt

Class or Assay
Amount of Material Involved
Equipment
Source of Information

Details: Known loss of known quantity.

On January 31, 1956, ten drums of C-816, laboratory waste, and hydrocarbon oil solutions, located in vaults 15-A and 16-A, were discovered to have developed leaks sometime during the month of January as a result of the corrosive action of the contents of the drums. The entire contents of the drums had been released and no recovery was made. The material type and loss from each drum are shown below:

<u>Drum No.</u>	<u>Material Type</u>	<u>Volume, Liters</u>	<u>Grams U</u>	<u>Grams U²³⁵</u>
X-3223	9W7	108.90	35	1
E-1028	9W7	27.50	1	0
E-38	9W7	51.90	7	0
E-883	6W1	204.80	242	2
E-920	6W1	211.20	496	3
E-1288	6W1	212.48	2,465	17
E-1290	6W1	186.88	16,109	109
E-1512	6W1	209.92	405	3
R-3423	6L1	102.22	16,017	106
R-3699	6L1	92.67	908	6
		Total	36,685	247

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Mr. J. A. Parsons

-2-

February 1, 1956

The total release of 36,685 grams uranium and 247 grams uranium-235 will be shown as a known loss and credited to the 920 account.

H. G. Grisham
H. G. Grisham

Approved: S. S. Stief
S. S. Stief

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UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: /Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: February 15, 1956

Copies To: Mr. R. R. Frazier (2) K25RC
Mr. J. A. Marshall
Mr. W. D. McCluen
Mr. M. F. Schwepn
Mr. H. G. P. Snyder
Mr. B. H. Thompson
Mr. A. Varlan
File (H. G. Grisham)

Subject: K-1131 Material Release,
Report No. 208

KP-869, Part 21

Date of Release	January, 1956
Location of Release	K-1131
Balance Area Account No.	550
Material	UF ₆
Class or Assay	Class "A"
Amount of Material Involved	12,471 grams uranium
Equipment	K-1131 Vent Stack
Source of Information	W. D. McCluen

Details: Known loss of calculated quantity.

During January, 1955, periodic vent gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the full month's operation. During the first twenty-three days of January and for the last day of the month, the feed plant was producing 6-range material. Using a flow rate of 50 pounds per hour and an average analysis of 95 ppm, a calculated quantity of 8,392 grams uranium and 56 grams uranium-235 of 6-range material was thus vented to the atmosphere.

For a period of seven days, the feed plant was operating on 2-range production. Using the average of vent samples (180 ppm) and a flow rate of 45 pounds per hour, a calculated loss of 4,079 grams uranium and 10 grams uranium-235 of 2-range material was vented to the atmosphere.

The total loss of material vented to the atmosphere (12,471 grams uranium and 66 grams uranium-235) will be shown as a measured loss and credited to the 550 account.

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UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

953802

To: ✓ Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: March 8, 1956

Copies To: Mr. R. R. Frazier (2) K25RC
Mr. J. A. Marshall
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
Mr. B. H. Thompson
Mr. A. Varlan
File (H. G. Grisham)Subject: K-1131 Material Release,
Report No. 209

KP-869, Part 22

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of InformationFebruary, 1956
K-1131
550
UF₆
Class "A"
14,410 grams uranium
K-1131 Vent Stack
W. D. McCluen

Details: Known loss of calculated quantity

During February, 1956, periodic vent gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the month's operation. Using an average of these vent samples (135 ppm) and a flow rate of 50 pounds per hour, a calculated quantity of 14,410 grams uranium and 97 grams uranium-235 was vented to the atmosphere during February. This quantity of material will be shown as a measured loss and credited to the 550 account.

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H. G. Grisham

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UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

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To: ✓ Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: March 14, 1956

Copies To: Mr. L. L. Anthony
Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)

Subject: K-33 Material Release,
Report No. 210

KP-869, Part 23

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

January 20, 1956
K-33 Feed Room
150
UF₆
0.795%
5 lbs. UF₆
Cylinder P-133
W. D. McCluen

Details: Known loss of known quantity.

On January 20, 1956, a cylinder, P-133, of Paducah product material was being heated prior to feeding when a leak, due to a bad valve, was discovered. The cylinder was iced down and the valve changed after a release of five pounds of UF₆ material had resulted from the leaky valve. A request for decontamination was made and the area was decontaminated, but no separate accountability was maintained and hence there was no record of the decontamination results. As a result, the entire release of 1,534 grams uranium and 12 grams uranium-235 must be shown as a measured loss and credited to the 150 account.

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H. G. Grisham
H. G. Grisham

Approved:

S. S. Stief
S. S. Stief

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UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

254315

To: Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: March 28, 1956

Copies To: Mr. J. W. Arendt
Mr. R. R. Frazier (2) K25RC
Mr. W. D. McCluen
✓ Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)

Subject: Vault 16-A Material Release,
Report No. 211

KP-869, Part 24

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

March 26, 1956
Vault 16-A
920
Laboratory Waste
20.50%
142 grams uranium
Drum No. G-2902
J. W. Arendt

Details: Known loss of known quantity.

On March 26, 1956, drum No. 2902, containing 48.05 pounds of laboratory waste material, was discovered to have developed a leak during the month of March, 1956, as a result of the corrosive action of the contents of the drum. The entire contents of the drum had been released and no recovery was effected. The total release of 142 grams uranium and 29 grams uranium-235 will be shown as a measured loss and credited to the 920 account.

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H. G. Grisham
H. G. Grisham

Approved: *S. S. Stief*

S. S. Stief

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A Division of Union Carbide and Carbon Corporation

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958410

To: Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: April 16, 1956

Copies To: Mr. J. W. Arendt
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File (H. G. Grisham)

Subject: Vault 26-A Material Release,
Report No. 212

KP-869, Part 25

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

March 30, 1956
Vault 26-A
980
Laboratory Waste (27L1)
89.05%
12,775 grams of impure material
G-2927
J. W. Arendt

Details: Known loss of known quantity.

On March 30, 1956, a truck which was being "backed" into the alley-way of vault 26-A ran over a five-gallon bucket (G-2927), releasing the contents of the bucket. This bucket originally contained 9 grams uranium and 8 grams uranium-235. A recovery of less than one-half gram uranium was effected. The total release of 9 grams uranium and 8 grams uranium-235 will be shown as a measured loss and credited to the 980 account.

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UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: ✓ Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: April 16, 1956

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Mr. B. H. Thompson
Mr. A. Varlan
File (H. G. Grisham)

Subject: K-1131 Material Release,
Report No. 213

KF-869, Part 26

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

March, 1956
K-1131
550
UF₆
Class "A"
11,980 grams uranium
K-1131 Vent Stack
W. D. McCluen

Details: Known loss of calculated quantity.

During March, 1956, periodic vent gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the month's operation. Using an average of these vent samples (106 ppm) and a flow rate of 50 pounds per hour, a calculated quantity of 11,980 grams uranium and 80 grams uranium-235 was vented to the atmosphere during March. This quantity of material will be shown as a measured loss and credited to the 550 account.

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UNION CARBIDE NUCLEAR COMPANY

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58428

To: ✓ Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: April 16, 1956

Copies To: Mr. J. W. Arendt
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Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)Subject: Vault 16-A Material Release,
Report No. 214

KP-869, Part 27

Date of Release	March 19, 1956
Location of Release	Vault 16-A
Balance Area Account No.	920
Material	Laboratory Waste
Class or Assay	"B" and "C"
Amount of Material Involved	411.66 liters
Equipment	Waste drums
Source of Information	J. W. Arendt

Details: Known loss of known quantity.

On March 19, 1956, four drums of laboratory waste were discovered to have developed leaks as a result of corrosion as follows:

Drum No.	Material Type	Quantity of Material	Grams U	Grams U235
R-4614	12L1	101.06L	102	11
R-4185	9L1	104.19L	1,719	19
R-3836	10L1	105.84L	93	2
R-4121	10L1	100.57L	371	10
Totals		411.66L	2,285	42

A quantity of 1,077 grams uranium and 24 grams uranium-235 was recovered through decontamination. The difference between the original release and the recovery (1,208 grams uranium and 18 grams uranium-235) will be shown as a measured loss and credited to the 920 account.

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To: Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: April 16, 1956

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Mr. H. G. P. Snyder
File (H. G. Grisham)Subject: Vault 15-A Material Release,
Report No. 215

KP-869, Part 28

Date of Release	April 4, 1956
Location of Release	Vault 15-A
Balance Area Account No.	920
Material	Nitric Acid Solution
Class or Assay	0.845%
Amount of Material Involved	545.28 liters
Equipment	Drums
Source of Information	J. W. Arendt

Details: Known loss of known quantity.

On April 4, 1956, three drums in vault 15-A were discovered to have developed leaks due to corrosion and released the contents of the drums as follows:

<u>Drum No.</u>	<u>Quantity of Material</u>	<u>Grams U</u>	<u>Grams U-235</u>
E-4473	199.68 L	635	5
E-4474	197.12 L	627	5
E-4482	148.48 L	472	4
Totals	545.28 L	1,734	14

No recovery was effected. The total release of 1,734 grams uranium and 14 grams uranium-235 will be shown as a measured loss and credited to the 920 account.

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H. G. Grisham

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To: ✓ Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: April 16, 1956

Copies To: Mr. J. W. Arendt
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Mr. M. F. Schwenn
Mr. H. G. P. Snyder
File (H. G. Grisham)Subject: Vault 15-A Material Release,
Report No. 216

KP-869, Part 29

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of InformationApril 9, 1956
Vault 15-A
920
Nitric Acid Solution
"B"
708.44 liters
Drums
J. W. Arendt

Details: Known loss of known quantity.

On April 9, 1956, four drums were discovered to have developed leaks as a result of corrosion and released the contents of the drums as follows:

<u>Drum No.</u>	<u>Quantity of Material</u>	<u>Grams U</u>	<u>Grams U-235</u>
E-4495	202.24	643	5
E-4494	202.24	643	5
E-4476	202.24	643	5
R-2617	101.72	642	7
Totals	708.44	2,571	22

Since there was no recovery, the total release of 2,571 grams uranium and 22 grams uranium-235 will be shown as a measured loss and credited to the 920 account.

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H. G. GrishamApproved: *S. S. Stief*

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G. 66006

UNION CARBIDE NUCLEAR COMPANY

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To: Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: May 11, 1956

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File (H. G. Grisham)Subject: Vault 16-A Material Release,
Report No. 217

KP-869, Part 30

Date of Release	April 9, 1956
Location of Release	Vault 16-A
Balance Area Account No.	920
Material	Laboratory Waste
Class or Assay	"B" and "C"
Amount of Material Involved	6,237 grams uranium
Equipment	Drums as listed below
Source of Information	J. W. Arendt

Details: Known loss of known quantity.

On April 9, 1956, eight drums of laboratory waste material in vault 16-A were discovered to have developed leaks as a result of corrosion. The contents of the drums were released as follows:

Drum No.	Material Type	Quantity of Material	Grams U	Grams U ²³⁵
R-4120	9L1	107.15 L.	567	7
R-2696	9L1	102.45 L.	488	5
R-3805	11L1	239.10 lbs.	479	30
E-3002	9L1	135.68 L.	902	11
R-4167	9L1	105.34 L.	1,380	25
R-3925	9L1	94.32 L.	861	14
R-3580	11L1	246.30 lbs.	1,145	84
R-4132	10L1	102.88 L.	415	12
Total Release			6,237	188

A recovery through decontamination was effected as follows:

E-4631	10L1	156.16 L.	1,640	48
Sample				
No. 922008	10L1	1.00 L.	11	0
Total Recovery			1,651	48

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Mr. J. A. Parsons

-2-

May 11, 1956

The difference between the total release and recovery (4,586 grams uranium and 140 grams uranium-235) will be shown as a measured loss and credited to the 920 account.

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H. G. Grisham

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To: Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: May 14, 1956

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Mr. H. G. P. Snyder
File (H. G. Grisham)

Subject: Vault 16-A Material Release,
Report No. 218

KP-869, Part 31

Date of Release
Location of Release
Balance Area Account No.
Material

Class or Assay
Amount of Material Involved
Equipment
Source of Information

April 9, 1956
Vault 16-A
920
Carbitol, laboratory waste,
and acid solutions
"A", "B", and "C"
527.85 liters
Drums as shown below
J. W. Arendt

Details: Known loss of known quantity.

On April 9, 1956, four drums in vault 16-A were discovered to have developed leaks as a result of corrosion and released the contents as follows:

Drum No.	Material Type	Quantity of Material	Grams U	Grams U ²³⁵
R-3001	11L1	275.85 L.	597	41
R-4171	11L7	106.00 L.	251	14
R-4601	9D2	49.05 L.	81	1
R-4628	6D1	96.95 L.	1,619	10
Total Release			2,548	66

A recovery was effected as follows:

E-4630	11L1	125.44 L.	646	33
Sample No. 922007	11L1	1.00 L.	5	0
Total Recovery			651	33

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Mr. J. A. Parsons

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May 14, 1956

The measured loss, difference between release and recovery, which will be shown for this release and credited to the 920 account is broken down in the following manner:

<u>Material Classification</u>	<u>Grams U</u>	<u>Grams U²³⁵</u>
Depleted	1,619	10
Enriched below 75.0%	<u>278</u>	<u>23</u>
Total measured loss	1,897	33

H. G. Grisham
H. G. Grisham

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UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: May 15, 1956

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File (H. G. Grisham)

Subject: Vault 16-A Material Release,
Report No. 219

KP-869, Part 32

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

April 9, 1956
Vault 16-A
920
Nitric acid, laboratory waste,
and uranyl fluoride solutions
"A", "B", and "C"
15,517 grams uranium
Drums as shown below
J. W. Arendt

Details: Known loss of known quantity.

On April 9, 1956, six drums of the above-described material developed leaks due to corrosion and released their contents as follows:

Drum No.	Material Type	Quantity of Material	Grams U	Grams U235
R-2550	12L1	268.00 lbs.	900	95
R-3452	970	62.50 L.	11,149	147
R-3483	12L1	278.35 lbs.	617	83
R-3739	9L1	101.56 L.	146	2
R-4053	10L1	105.01 L.	112	3
R-4421	4D2	85.59 L.	2,593	12
Total			15,517	342

A recovery through decontamination was effected as follows:

E-4632	9L1	166.40 L.	3,910	40
Sample 922009	9L1	1.00 L.	24	0
Total Recovery			3,934	40

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Mr. J. A. Parsons

-2-

May 15, 1956

A total of 11,583 grams uranium and 302 grams uranium-235, the difference between original release and total recovery, will be shown as a measured loss and credited to the 920 account. The measured loss is broken down into material ranges as follows:

<u>Material Range</u>	<u>Grams U</u>	<u>Grams U235</u>
Depleted	2,593	12
Enriched below 75.0%	<u>8,990</u>	<u>290</u>
	11,583	302

H. C. Grisham
H. C. Grisham

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To: Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: May 17, 1956

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Mr. A. Varlan
File (H. G. Grisham)

Subject: K-1131 Material Release,
Report No. 220

KP-869, Part 33

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

April, 1956
K-1131
550
UF6
"A"
10,070 grams uranium
K-1131 Vent Stack
W. D. McCluen

Details: Known loss of calculated quantity.

During April, 1956, periodic vent gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the month. During the first 12 days of the month, the feed plant was using normal assay Port Hope oxide. Using an average of the vent samples (114 ppm) for this period and a flow rate of 50 pounds per hour, a calculated quantity of 5,035 grams uranium and 36 grams uranium-235 was vented. The feed plant was operating with reactor tails oxide for the remaining 19 days of the month. Using a flow rate of 50 pounds per hour and an average of the vent gas samples (72 ppm) for this period, a calculated quantity of 5,035 grams uranium and 34 grams uranium-235 was vented. The total quantity of 10,070 grams uranium and 70 grams uranium-235 was vented during the month and will be shown as a measured loss credited to the 550 account.

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A Division of Union Carbide and Carbon Corporation

To: Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: June 13, 1956

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Mr. A. Varlan
File (H. G. Grisham)

Subject: K-1131 Material Release,
Report No. 221

KP-869, Part 34

H. F. SCHWENN

JUN 13 PM 4:12

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

May, 1956
K-1131
550
UF6
"A"
8,900 grams uranium
K-1131 Vent Stack
W. D. McCluen

Details Known loss of calculated quantity.

During May, 1956, periodic vent gas samples were taken at the K-1131 feed plant by the Process Control Laboratory in order to determine the extent of material which was vented to the atmosphere during the month. Using an average of these samples (78 ppm) and a flow rate of 50 pounds per hour, a calculated quantity of 8,900 grams uranium and 60 grams uranium-235 was vented. This quantity will be shown as a measured loss and credited to the 550 account.

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To: Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: June 13, 1956

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M. F. SCHWENN

Subject: Vault 16-A Material Release,
Report No. 222

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KP-869, Part 35

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment
Source of Information

April 20, 1956
Outside Vault 16-A
920
Laboratory Waste Solution
91.50%
212 grams uranium
Carboy G-3059
J. W. Arendt

Details: Known loss of known quantity.

On April 20, 1956, while in the process of movement, carboy No. G-3059 was broken and the contents of laboratory waste solution were released. The carboy originally contained 212 grams uranium and 194 grams uranium-235. Through decontamination, a recovery of 206 grams uranium and 189 grams uranium-235 was effected. The difference of 6 grams uranium and 5 grams uranium-235 will be shown as a measured loss and credited to the 920 account.

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To: Mr. J. A. Parsons
K-303-8

Plant: Oak Ridge Gaseous Diffusion

Date: June 13, 1956

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Subject: Vault 15-A Material Release,
Report No. 223

M. F. SCHWENN
JUL 10 PM 4:12

KP-869, Part 36

Date of Release
Location of Release
Balance Area Account No.
Material
Class or Assay
Amount of Material Involved
Equipment

May, 1956
Vault 15-A
920
Nitric acid solution
Class "B"
427.11 liters
Drums Nos. R-4251, E-4475,
and E-4491
J. W. Arendt

Source of Information

Details: Known loss of known quantity.

During May, 1956, three drums as listed above were discovered to have developed leaks as a result of the corrosive action of the nitric acid solution and released the total contents of the drums. These drums originally contained 1,286 grams uranium and 11 grams uranium-235. Since there was no recovery, this total release will be shown as a measured loss and credited to the 920 account.

~~RESTRICTED DATA~~
This document contains Restricted Data as defined in the Atomic Energy Act of 1954. Unauthorized disclosure subject to Administrative and Criminal Sanctions.

H. G. Grisham
H. G. Grisham

Approved: *S. S. Stief*
S. S. Stief

HGG:mmk

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WGX-163 (8-55)

*For Report # 224
See KP-1069*

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DISTRIBUTION

1. K-25 Site Records (RC)
2. ChemRisk/Shonka Research Associates
3. S. G. Thornton (K-25 EMD)
4. DOE Public Reading Room